CLAIMS

What is claimed is:

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8.

each adjacent arc.

1	1. The method of making a golf ball mold half which comprises:
2	a. forming a golf ball hob having an arcuate surface defined by at least two arcs
3	having different center points;
4	b. contacting the arcuate surface of the golf ball hob with a golf ball mold blank; and
5	c. applying pressure to cause a negative of at least the arcuate surface of the golf ball
6	hob shape to be imparted to the golf ball mold blank to form the golf ball mold half.
1	2. The method of claim 1, wherein the arcuate surface has a pole, an equator
2	edge, and a profile from the pole to the equator edge, wherein the profile is composed of at
3	least two arcs.
1	3. The method of claim 2, wherein the profile comprises at least three arcs.
1	4. The method of claim 2, wherein the profile comprises three arcs each
2	extending 30 degrees.
1	5. The method of claim 2, wherein the profile comprises:
2	a first arc extending 30 degrees from the pole toward the equator edge and having a
3	first radius;
4	a third arc extending 30 degrees from the equator edge toward the pole and having a
5	third radius and; and
5	a second arc extending 30 degrees between the first arc and the third arc, and having
7	a second radius, wherein the first radius and the third radius are larger than the second
8	radius.
1	6. The method of claim 5, wherein the first radius and the third radius are equal.
1	7. The method of claim 2, wherein each arc is in a continuous arrangement to
2	each adjacent arc.

- 10 - DC1 - 270940.1

The method of claim 2, wherein each arc is in a tangential arrangement to

1	9. The method of making a golf ball mold half which comprises:
2	a. forming a golf ball hob having an imperfectly spherical three-dimensional
3	contour;
4	b. contacting the contour of the golf ball hob with a golf ball mold blank; and
5	c. applying pressure to cause at least a negative of the contour of the golf ball hob
6	shape to be imparted to the golf ball mold blank to form the golf ball mold half.
1	10. The method of claim 9, wherein the contour has a profile comprising at least
2	two different arcs joined in a continuous arrangement.
1	11. The method of claim 10, wherein the at least two different arcs are joined in
2	a tangential arrangement.
1	12. The method of claim 9, wherein the contour has a pole and an equator edge,
2	and a profile has a first radius of curvature near the pole, a third radius of curvature near the
3	equator edge, and a second radius of curvature between the first radius of curvature and
4	third radius of curvature, wherein the first radius of curvature and the third radius of
5	curvature are greater than the second radius of curvature.
1	13. A method of making a golf ball comprising:
2	a. providing first and second golf ball mold halves, each mold half having a cavity
3	with an arcuate surface defined by at least two arcs having different center points;
4	b. placing a golf ball subassembly into a golf ball mold cavity defined by the cavity
5	of the first golf ball mold half and the cavity of second golf ball mold half; and
6	c. disposing a cover material within the golf ball mold cavity around the
7	subassembly.
1	14. The method of claim 13, wherein the golf ball subassembly is a solid core.
1	15. The method of claim 13, wherein the golf ball subassembly comprises a
2	center of polybutadiene and at least one intermediate layer formed around said center.
1	16. The method of claim 15, wherein the at least one intermediate layer is a
2	thermoplastic polyurethane.
1	17. The method of claim 15, wherein the at least one intermediate layer is an

ionomer resin with an acid content of less than 20 weight percent.

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1 2	18. The method of claim 13, wherein the golf ball subassembly is a two-piece core comprising a solid center and an intermediate layer wound around said center.
1	19. The method of claim 13, wherein the golf ball subassembly is a two-piece
2	core comprising a liquid filled center and an intermediate layer wound around said center.
1	20. The method of claim 13, wherein the cover material is a thermoset
2	polyurethane.
1	21. The method of claim 13, wherein the cover material is a castable
2	polyurethane.
1	22. The method of claim 13, wherein the cover material is an ionomer or an
2	ionomer blend.
1	23. The method of claim 13, wherein the cover material is a thermoplastic
2	elastomer or a thermoplastic polyurethane.